Clint Smith Software Engineer

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Software Engineer with a background in laser/electro-optics and over two decades of practical, hands-on experience. I've contributed to projects ranging from R&D prototypes with embedded systems to production backend systems built with Python/Django and Golang microservices. Alongside software, I've spent time in labs and manufacturing shops, giving me a strong appreciation for real-world constraints and cross-disciplinary collaboration. While software engineering is my most recent core strength, I'm open to any role where my skills and experience can add value.

SKILLS

Software Engineering
20+ years of experience in software development, with a strong focus on backend systems. Recent role as a Senior Backend Engineer at a health tech company, contributing to a large-scale production environment.

Django & Django REST Framework
Extensive experience using Django and DRF to build and maintain backend APIs in a healthcare production environment.

Temporal
Used extensively during a major platform upgrade to ensure durable execution of complex, multi-step patient workflows in healthcare applications.

Microservices Architecture

Python
10 years of experience, with deep use over the last 6–7 years in backend development. Proficient in writing clean, maintainable Python code in production systems.

Golang
Used Go in a microservices architecture over the last 1.5 years, contributing to the modernization of our backend systems.

gRPC & Protobuf
Developed and maintained internal APIs using gRPC, with Protobuf for efficient serialization and cross-language code generation.

FHIR Protocols

PROFESSIONAL EXPERIENCE

Sr. Backend Engineer, *Included Health (formerly Doctor On Demand)* 10/2017 – 11/2024
Remote

- Worked across engineering teams to modernize healthcare systems, transitioning from monolithic architecture to scalable microservices.
- Built backend services and APIs using Python (Django) and Golang, supporting everything from clinical workflows to practitioner scheduling.
- Implemented Temporal workflows and **REST** integrations with third-party EHR systems, while using **gRPC** and Protobuf for efficient internal service communication.
- Focused on improving maintainability, observability, and test coverage while troubleshooting complex production issues.
- Created internal tools that automated critical workflows, reduced manual work, and enabled smoother provider operations.

Software Engineer, *Business Information Technology Solutions (BITS), LLC* 10/2015 – 10/2017
Kihei, HI

- Surveyed and documented innovation barriers within the Defense Health Agency to inform modernization efforts.
- Collaborated with a small team to design and implement a prototype web application aimed at reducing onboarding overhead for new development teams.
- Built prototype microservices using Python and the Falcon framework.
- Enabled integration of legacy clinical and medical device data with modern FHIR-based EHR systems, including MHS Genesis and Cerner Millennium.

Software Engineer, *Thao, Inc.* 10/2014 – 09/2015

1-year contract – Optimal Vision Care Prototype (OVCP) Kihei, HI

- Collaborated with physicians and healthcare professionals to improve the design and usability of a clinical prototype through iterative feedback and hands-on testing.
- Introduced a structured data entry system that significantly improved input accuracy and streamlined the user experience.
- Facilitated usability testing and refinement cycles, resulting in a 66% increase in user satisfaction scores.
- Helped translate clinical workflows into a more intuitive interface, improving adoption and clarity for end users.

Software Developer, *HNu Photonics, LLC* 06/2012 – 10/2014

Wailuku, HI

- Improved legacy C# software and collaborated with researchers to support investor demos of microfluidics technology.
- Partnered with scientists to analyze and enhance prototype designs through software-driven experimentation.
- Introduced modern development practices, including version control, CI/CD pipelines, and issue tracking.
- Developed an Android app that transformed tablets into interactive microscope displays for use in STEM classrooms.

Additional work history available upon request

EDUCATION

Continuing Education in Computer Science, *Regis University* 01/2016 – 10/2017

Completed core CS coursework in algorithms, data structures, and systems programming before transitioning to a full-time engineering role.

Laser Electro-Optics, *Texas State Technical College* 01/1994 – 12/1996

Waco, Tx

Specialized in the principles and applications of lasers, optics, and electro-optical systems. Gained hands-on experience in laser alignment, optical systems, and advanced technologies used in industrial and research settings.